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# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

08/12/2003

RICHARD L SCHWAAB FOLEY & LARDNER WASHINGTON HARBOUR 3000 K STREET NW SUITE 500 WASHINGTON, DC 200075109

EXAMINER				
RAO, SHRINIVAS H				
ART UNIT	CLASS-SUBCLASS			
2814	257-372000			

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/440,928	11/16/1999	 NOBUTOSHI AOKI	040301/0578	3624

TITLE OF INVENTION: SEMICONDUCTOR INTEGRATED CIRCUIT INCLUDING INSULATED GATE FIELD EFFECT TRANSISTOR AND METHOD OF MANUFACTURING THE SAME

. APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	11/12/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450

(703)746-4000 **Fax** 

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

08/12/2003

RICHARD L SCHWAAB **FOLEY & LARDNER** WASHINGTON HARBOUR 3000 K STREET NW SUITE 500 WASHINGTON, DC 200075109

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

Thereby certify that this Fee(s) Transmission deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Dcj	ositor's name)
	(Signature)
	(Date)

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
٠	00/440 029	11/16/1000	NODITOCUI AOVI	040201/0579	2624

TITLE OF INVENTION: SEMICONDUCTOR INTEGRATED CIRCUIT INCLUDING INSULATED GATE FIELD EFFECT TRANSISTOR AND METHOD OF MANUFACTURING THE SAME

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	11/12/2003
EXAMIN		ART UNIT	CLASS-SUBCLASS		
RAO, SHRI	······································	2814	257-372000		
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> </ol>			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys		
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		or agents OR, alternatively, (2 single firm (having as a men attorney or agent) and the na			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered patent attorneys or a is listed, no name will be printed	gents. If no name	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category of 4a. The following fee(s) are enclosed:	<u> </u>		— Marvidaar	☐ corporation or other private group entity ☐ gov	emment	
☐ Issue Fee	•	4b. Payment of Fee(s):  ☐ A check in the amount of the fee(s) is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Publication Fee	⊔ Paymen					
☐ Advance Order - # of Copies	The Cor Deposit Ac	☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).				
Commissioner for Patents is requested to apply the	ne Issue Fee and Publication Fee (	f any) or to re-a	apply any previo	usly paid issue fee to the application identified above	<del>.</del>	
(Authorized Signature)	(Date)					
NOTE; The Issue Fee and Publication Fee (in	required) will not be accepted	rom anyone				

other than the applicant; a registered attorney or agent; or the assignee or oth interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO. Commissioner for Patents Alexandria, Virginia 23131-1450. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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#### UNITED STATES PATENT AND TRADEMARK OFFICE



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7:	590 08/12/2003		EXAMIN	ER
RICHARD L SCHWAAB FOLEY & LARDNER		RAO, SHRINIVAS H		
WASHINGTON H			ART UNIT	PAPER NUMBER
3000 K STREET NW SUITE 500 WASHINGTON, DC 200075109		2814	•	
WASHINGTON, I	JC 2000/3109	DA	TE MAILED: 08/12/2003	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.





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7	590 08/12/2003	·	EXAMIN	ER
RICHARD L SC	—		RAO, SHRIN	IVAS H
FOLEY & LARD! WASHINGTON F			ÁRT UNIT	PAPER NUMBER
3000 K STREET N		•	2814	
WASHINGTON, I	DC 2000/3109	D	ATE MAILED: 08/12/2003	

#### Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	00/440 000	AOKI ET AI	
Notice of Allowability	09/440,928 Examiner	AOKI ET AL.  Art Unit	T
	Steven H. Rao	2814	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not includ will be mailed in due	ed course. THIS
1. This communication is responsive to <u>5/27 &amp; 8/05/03</u> .			
2. X The allowed claim(s) is/are 2-3, 5-10, 16-21, 23, 25, 29, 32	? and 36-45 .		
3. The drawings filed on 27 May 2003 are accepted by the Ex	kaminer.		
4. Acknowledgment is made of a claim for foreign priority und	ler 35 U.S.C. § 119(a)-(d) or (f).		
a) 🛛 All b) 🗌 Some* c) 🗌 None of the:			
<ol> <li>Certified copies of the priority documents have</li> </ol>			
<ol><li>Certified copies of the priority documents have</li></ol>	· · · —	<del></del>	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this	national stage applica	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority up		ional application).	
(a) The translation of the foreign language provisional a			
6. Acknowledgment is made of a claim for domestic priority un	nder 35 U.S.C. §§ 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a reply control this application. THIS THREE-MO	omplying with the requ	uirements noted EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which gives reas	nitted. Note the attached EXAMINEF con(s) why the oath or declaration is	R'S AMENDMENT or l deficient.	NOTICE OF
<ul> <li>8. CORRECTED DRAWINGS must be submitted.</li> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No.</li> <li>(b) including changes required by the proposed drawing of including changes required by the attached Examiner</li> </ul>	correction filed, which has b	een approved by the	
(o) In moderning orienting or required by the ambunet arrangement		.,	· · ·
Identifying indicia such as the application number (see 37 CFR 1 each sheet.	.84(c)) should be written on the drawi	ngs in the front (not the	e back) of
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T			Note the
Attachment(s)			
1☐ Notice of References Cited (PTO-892)		al Patent Application	
3 Notice of Draftperson's Patent Drawing Review (PTO-948)		nary (PTO-413), Paper	r No
<ul> <li>5 ☐ Information Disclosure Statements (PTO-1449), Paper No</li> <li>7 ☐ Examiner's Comment Regarding Requirement for Deposit</li> </ul>	<del></del>	endment/Comment ement of Reasons for	Allowance
of Biological Material	9☐ Other .	2	
-			



Art Unit: 2814

### Response to Amendment

Applicants' amendment filed on May 27, 2003 has been entered on June 06, 2003 and the Supplemental amendment filed on August 04, 2003 has been entered on August 05, 2003.

Therefore claims 2-3, 5-10, 16-21, 23, 25, 29, 32 and 36-45 as recited in the Supplemental Amendment of August 05, 2003 are currently pending in the Application.

### **Drawings**

The corrected or substitute drawings were received on 5/27/03. These drawings are accepted by the drafts person.

### Allowable Subject Matter

Claims 2-3, 5-10, 16-21, 23, 25, 29, 32 and 36-45 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitation of the dependent claims, in such manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in independent claims, which include A semiconductor device as recited in claim 23 especially a gate electrode provided with a first region including a first group Iv element and a second group Iv element and a second region including the first group Iv element and formed on the insulating gate film over and in contact with the first region, the first and second regions having an identical conductivity type and in independent claim 32 claim in addition to the structure described in claim 23 a plurality of IGFETs are recited.



Art Unit: 2814

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven H. Rao whose telephone number is (703) 3065945. The examiner can normally be reached on 8.00 to 5.00.

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 7463926 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 3067722.

/ LONG PHAM PRIMARY EXAMINER

Steven H. Rao

Patent Examiner August 8, 2003.